

# DONATONI D1600 D2000

CNC CUTTING CENTER



**DONATONI**  
Stone Tech Creators

# THE SOLUTION FOR GREAT CHALLENGES

DONATONI D1600 and D2000 are a 5 interpolated axes CNC cutting and shaping centre with Z-axis stroke of 1400 mm, rotating blade head swiveling from  $-5^{\circ}$  to  $+545^{\circ}$  degrees and tilting from 0 to 90 degrees, to perform orthogonal cuts up to 635 mm, for the execution of marble, granite and sintered stone works of middle and large dimensions.

They are suitable for oblique, circular, elliptical, inclined cuts, rectilinear, concave, convex, arched, elliptic shapes, excavations of two-dimensional and three-dimensional slabs.

**Electro-spindles** with high quality produced in Italy, with adjustment of the nr. of revolutions, blade head rotating from  $-5^{\circ}$  to  $+545^{\circ}$  degrees and inclinable from 0 to 90 degrees, mounted on steel carriage.



**Sliding cross-beams and bridge** with linear bearings and helicoidal-teeth racks for the X and Y axis, with lubrication by automated grease system and bellows for protection with labyrinth closure.



**Disk diameter of 1600/2000 mm** for cutting up to 635 mm depth on marble and granite.



**Head up-down sliding (Z axis)** on recirculating linear ball guides with ACS safety system.



## PROCESSING



# SOFTWARE

## PARAMETRIX

Parametrix is the simple and user-friendly software developed by Donatoni Macchine and conceived to optimise the management of cutting different shaped pieces from slabs. It allows you to manage different kind of cutting processes using predefined shapes in the programme or imported from DXF files and automatically to set the position of the pieces and the sequence of cuts, optimizing the times and reducing material waste.



## ISOSAG

The software allows to create files for the performance of rectilinear or concave shapes and convex arc both with vertical and horizontal blade. The shaping process can be performed both in roughing (combing) and finishing (brushing) or in combined mode.



## SCAN CNC

Detection system composed of a laser pointer mounted on the machine head and a software integrated with Parametrix, allowing to detect two-dimensional profiles with linear or curvilinear shape, create the drawing (file dxf) on the machine monitor and riproduce automatically the file.



## PHOTOSLAB

By means of a camera placed above the machine and the related record software, the slab being cut is automatically detected. The system allows the optimization and the exploitation of the slab dimensions, the speeding of pieces positioning, avoiding possible defects or enabling to perform cuts by following the veins of the material.



# TYPES OF PROCESSING



INCLINED CUTS 0-90°



ELLIPTICAL CUTS



LONGITUDINAL CUTS



SHAPES



OBLIQUE CUTS



CIRCULAR CUTS



CROSS CUTS

		D1600	D2000
Max number of interpolated axes	N°	5	5
Carriage stroke X-axis *	mm	4000	4000
Bridge stroke Y-axis *	mm	3500	3500
Up-down head stroke Z-axis	mm	1400	1400
Disc head rotation C-axis	degrees	-5° / +545°	-5° / +545°
Disc head tilting movement A-axis	degrees	0°/90°	0°/90°
Platform dimensions *	mm	2000 x 3500	2000 x 3500
Min. disc diameter	mm	750	750
Max disc diameter	mm	1600	2000

\* different dimensions upon request

		D1600	D2000
Max cutting thickness	mm	635	800
Electro-spindle motor power	kW	35/56	46/56
Tools rotation with inverter	RPM	0/2400	0/2400
X Y axes positioning max speed	m / min	0 / 37	0 / 37
Head movement max speed Z -axis	m / min	0 / 10	0 / 10
Water consumption	l / min	50	50
Air consumption	l / min	5	5
Standard voltage	Volt / Hz	400 ±10% / 50	400 ±10% / 50
Total weight standard machine	Kg	11500	12000



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**Donatoni Macchine**, founded by Vittorio Donatoni in 1959 in Domegliara, one of the main marble and granite processing districts, is recognised, thanks to their years of experience gained in the natural stone industry during this time, as one of the world leaders in manufacturing **cutting-edge machines of very high quality for working stone.**

**Constant research, technological innovation and customer service** are key concepts for the company and in order to pursue them the company employs highly qualified technical and commercial personnel, in order to guarantee the end customer a **product that reflects their expectations in terms of quality and performance.**

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